

characteristic curve near this frequency and a higher Q factor.

REMARKS

The specification has been amended to make it consistent with the drawings. No new matter has been added.

Examination is respectfully requested.

Respectfully submitted,



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MARKED UP VERSION OF REPLACED  
PARAGRAPHS OF THE SPECIFICATION

Pages 7 and 8, the paragraph bridging these pages from page 7, line 24 to page 8, line 1, the marked-up paragraph is as follows:

Figs. 6A and 6B are [is a] diagrams illustrating an embodiment of a reflection property when the dielectric resonator is coupled with the microstrip line;

Pages 11 and 12, the paragraph bridging these pages from page 11, line 25 to page 12, line 21, the marked-up paragraph is as follows:

Figs. 6A and 6B illustrate [illustrates] a reflection property when the dielectric block is coupled with the microstrip line formed on the GaAs substrate. The horizontal axis represents the frequency from 70 GHz to 85 GHz. The vertical axis represents the reflection by dB. Fig. 6A shows a case in which the resonator is made to resonate at the resonance frequency of the lowest order mode ( $TE_{018}$ ). On the other hand, Fig. 6B shows a case in which the resonator is made to use a higher order mode except for the lowest order

mode. In this example, the resonance frequency of the lowest order mode is about 38 GHz, and the resonator is made to use the resonance frequency of the higher order mode that appears at 76 GHz. These reflection properties show that as the peak of the curve is sharper, the Q factor of the resonance is higher. Moreover, as the Q factor is higher, it becomes easier to realize a resonator of a still lower phase noise. Further, as the peak of the curve is closer to 0 dB, the coupling is stronger. In consideration of Fig. 6A and Fig. 6B, it will be understood that realizing the resonance frequency 76 GHz by the higher order mode facilitates to attain a sharper peak of the characteristic curve near this frequency and a higher Q factor.

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